

INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011449

A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl⁷ C12N15/10, C12N15/11, A61K31/711, A61K31/713

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl⁷ C12N15/10, C12N15/11, A61K31/711, A61K31/713

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

CA (STN), MEDLINE (STN), BIOSIS (STN), JSTPLUS FILE (JOIS),
Genbank/EMBL/DDBJ/GeneSeq

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
P, X	TAKI M. et al., Small-interfering-RNA expression in cells from a dumbbell-shaped DNA., Angewandte Chemie, International Edition, 2004, Vol.43, No.24, pages 3160 to 3163	1-32
P, X	TAKI M. et al., A direct and efficient synthesis method for dumbbell-shaped linear DNA using PCR in vitro., Nucleic Acid Res. Suppl., 2003, 30th, No.3, pages 191 to 192	1-32

 Further documents are listed in the continuation of Box C. See patent family annex.

* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"P" document member of the same patent family

Date of the actual completion of the international search
15 September, 2004 (15.09.04)Date of mailing of the international search report
05 October, 2004 (05.10.04)Name and mailing address of the ISA/
Japanese Patent Office

Authorized officer

Facsimile No.

Telephone No.

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C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	SCHAKOWSKI F. et al., A novel minimal-size vector (MIDGE) improves transgene expression in colon carcinoma cells and avoids transfection of undesired DNA. Molecular Therapy, 2001, Vol.3, No.5, pages 793 to 800	1-32
A	US 6451563 B1 (MOLOGEN FORSCHUNGS), 17 September, 2002 (17.09.02), (Family: none)	1-32
A	SIMMEN K.A. et al., Complex requirements for RNA polymerase III transcription of the Xenopus U6 promoter. Nucleic Acids Res. 1990, Vol.18, No.19, pages 5649, 5657	21-24

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Box No. I Nucleotide and/or amino acid sequence(s) (Continuation of item 1.b of the first sheet)

1. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, the international search was carried out on the basis of:
 - a. type of material
 - a sequence listing
 - table(s) related to the sequence listing
 - b. format of material
 - in written format
 - in computer readable form
 - c. time of filing/furnishing
 - contained in the international application as filed
 - filed together with the international application in computer readable form
 - furnished subsequently to this Authority for the purposes of search
2. In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
3. Additional comments: